Electronic Communications Committee
Working Group Spectrum Engineering
54th Meeting, Bordeaux, France
07 – 11 September 2009

ECC/WG SE

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Report from the Working Group Spectrum Engineering

Bordeaux, 07 – 11 September 2009

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1 Opening of the meeting

The WG SE Chairman opened the 54th WG SE meeting held in Bordeaux, France at the kind invitation of the Agence Nationale des Fréquences (ANFR).

Mr. Bruno Espinosa (F) welcomed the delegates in Bordeaux and mentioned that it was a great pleasure for the ANFR to host this 54th WG SE meeting. He highlighted that France gives a great importance to the technical expertise of WG SE, which is widely recognised and considered as one key element of the CEPT activity.
He provided further information about the practical arrangements.

The Chairman of WG SE, Mr. Christoph Wöste, thanked him for the kind welcome and the good preparation of the meeting.
The meeting was attended by a total of 49 delegates from 22 Administrations, CRAF, ECO, ETSI and Digital Europe (see **Annex 02** for details).

Apologies for absence were received from Mr. Jean-Yves Guyomard (France), Mr. Steve Bond (UK), Mr. Mats Öhman (Telia Sonera), Mr. Guillaume Arnaudet (Bouygues Telecom) and Mr. Detlef Fuehrer (European Commission).

2 Adoption of the Agenda, Schedule of Work

The Agenda was adopted. A copy is attached as **Annex 01**.
The list of documents is attached in **Annex 03** and the list of SE Project Teams and their Terms of Reference as revised by the meeting is available in **Annex 04**.

3 Matters arising

3.1 ECC

The WG SE Chairman presented the results from the 23nd ECC meeting which was held in Douglas on the Isle of Man from 22 – 26 June 2009 (see document SE(09)093).

He highlighted the following points:

- Following the comments received during the Public Consultation on the CEPT Report 28 on the Mandate on MCV, SE7 has discussed them in detail and proposed some amendments to the CEPT Report. The ECC noted these proposed amendments and, in addition, some other slight amendments and editorial improvements were suggested and they were finally endorsed by the ECC meeting. As a result, ECC approved the CEPT Report 28 on the Mandate on MCV for submission to EC.

- The ECC discussed the Report developed by SE42 in response to the 2nd EC Mandate on Digital Dividend and noted that additional work was necessary to finish these deliverables, mainly necessary editorial improvements, and on two

annexes to the draft Report which could not be completed earlier. Taking into account other inputs to the ECC meeting, the draft CEPT Report 30 was concluded and approved for Public Consultation. The CEPT Report was also forwarded to the EC.

- The ECC approved the draft ECC Decision ECC/DEC/(09)EE on the "Harmonised conditions for Mobile/Fixed Communications Networks operating in the band 790 - 862 MHz" for Public Consultation.

- ECC discussed the two new EC Mandates, one on 900/1800 MHz and one on 2 GHz:
    - After the consultation of the SG and the ECC membership the Mandate on the 900/1800 MHz bands was provisionally attributed to ECC PT1. This was confirmed by the ECC.
    - On the Mandate on the 2 GHz band the meeting considered the possibility to assign the 2GHz task to either ECC PT1 or SE42. After some discussion it was concluded to assign the work to SE42; however Task 1 will initially be co-ordinated by the Office by developing a questionnaire with support from both SE42 and ECC PT1. SE42 will take overall responsibility to combine the results from both Tasks 1 and 2 into a single draft CEPT Report.

It was also noted that SE43 was tasked to report to the group on its Cognitive Radio Systems experience. ECC also decided to task the WG FM to start to identify possible candidate bands for CRS.

3.2 ECC PT1 (IMT-matters)

Mr. Jaime Afonso (POR) indicated that no ECC PT1 meeting took place since the previous WG SE meeting in Croatia. However, a lot of work was carried out through correspondence during the summer period in relation to the Liaison Statement from ETSI MSG on MCBTS. ECC PT1 was tasked to work on (see doc. SE(09)115):

- GSM MCBTS - GSM-R (GSM900 band);
- GSM MCBTS - Aeronautical systems operating in 960 - 1215 MHz (because ECC PT1 had already started a similar study for UMTS vs. these systems);
- GSM MCBTS operating in the DCS-1800 band - DECT in 1880 - 1900 MHz;
- GSM MCBTS - UMTS 900.

In addition, the ECC meeting in Vienna tasked ECC PT1 to carry out studies on DME and Future Communications Systems operating above 960 MHz under the new AM(R)S allocation following the WRC-07.

The preliminary results of that ECC PT1 work on MCBTS is presented in SE(09)122 for WG SE consideration. The WG SE meeting endorsed these conclusions from the ECC PT1 studies and suggested to merge them the results of SE7. For further information, see also Section 5.2 (SE7).

The next ECC PT1 meeting is scheduled for 15-17 September in Seville, Spain.

3.3 WG FM

The results of the recent 66th Working Group FM meeting in Montegrotto, Italy ,18 – 22 May in doc. SE(09)094 were presented by the WG SE Chairman.

Three Liaison Statements were sent to WG SE:

- Document SE(09)106 is a Liaison Statement from WG FM to WG SE and ECC PT1 regarding further studies concerning the use of extension bands 873-876 /918-921 MHz for GSM-R. The need for further studies in ECC PT1 and WG SE was identified, including the practical guidance on co-ordination between GSM-R and public networks. For further information see section 5.3 (SE7).

- Document SE(09)107 is a Response from WG FM on Multimedia Wireless Systems (MWS) within 40.5-43.5 GHz. WG FM had discussed this issue again and decided that these two deliverables should be considered for revision (see section 6 for further information (SE19)).

- Document SE(09)108 is a response to WG SE on Surveillance Radar Systems in the band 76-77 GHz. The requested guidance on regulatory framework for this type of Surveillance Radar System was discussed inside the SRD/MG. They concluded that since the surveillance radar system, which is under consideration, is not used as part of a network, and can be operated individually, it should be considered as SRD. This conclusion, endorsed by the WG FM, was forwarded to WG SE in order that SE24 start compatibility studies (see section 8 for further information (SE24)).

Two further Liaison Statements were sent to WG SE in copy and are available in SE(09)Info011 and SE(09)Info012:

- SE(09)Info011 is addressed to ETSI on specific UWB applications. This information was sent in copy to SE and SE24.
- SE(09)Info012 is the WG FM response to ETSI ERM on the Liaison Statement on ETSI EG 201 788 V2.1.1 – “Guidance for the drafting of System Reference documents”. WG FM endorsed the WG SE response and added some further comments and asked ETSI ERM to take them into account (see also Info 15 on section 3.6 (ETSI)). No further activities were needed from WG SE at this stage.

In addition FM38 sent an information to WG SE (see SE(09)Info021) related to a SRDoc on CB Radio. FM38 informs that they are going to propose to the next WG FM that WG SE should be requested to consider the sharing/compatibility studies and measurement results in the SRDoc (see Section 5 (SE7) and 3.6 (ETSI) for further information).

The next WG FM is scheduled for 5-9 October 2009 in Kiev, Ukraine.

3.4 WG RA

Mr João Duque (POR) gave a brief summary of matters discussed during the last WGRA meeting (see doc. SE(09)095) with relevance to WG SE.

The 17th meeting of WG RA was held in Moscow, The Russian Federation, 2 – 5 June 2009, at the kind invitation of the General Radio Frequency Centre.

It was reported that the draft ECC REPORT "On introducing greater Flexibility in the current regulatory structure with a view to taking forward convergence and harmonisation in the ECC" was preliminary approved by WG RA and sent for public consultation. Mr João Duque noted that the work on flexible bands will be finalized once SE42 presents their studies on the 1785-1805 MHz and 57-59 GHz bands.

Moreover, the group was informed about the discussions which took place related the final approval of the ECC Report 132 on "Light-licensing, license-exempt and commons", where it was agreed to add the following text in the executive summary and conclusions:

"However, due to the fact that the term light licensing can have a broad meaning, it is recommended that when a reference to this term is used, the associated conditions of use should be clearly defined."

Finally, the group was informed that a new correspondence group was created, chaired by Mr. Patrick Donohue (France), in order to address the uncertainties, ambiguities and drawbacks of the use of TCAM/RSC RIS model in CEPT/ECC deliverables, and to serve as an ECC group of expertise on TCAM/RSC RIS model during the three year evaluation period in liaison with EFIS MG.

Related to EWM and Rx parameters please refer to section 14 (ECO).

The next WG RA meeting will be hosted by Spanish Administration in Madrid on 15 – 18 September 2009

3.5 CPG

There has been no CPG meeting since the 53rd WG SE meeting. The meeting was briefly informed that CPG-PTA and PTD met during this period.
The technical activities done within WG SE in support to CPG are reported in section 6 (work in SE19 on WRC-12 AI 1.20) and section 9 (work in SE40 on WRC-12 AI 1.18).

3.6 ETSI

WG SE considered the report from the ETSI Liaison Officer, Mr. Thomas Weber, in document SE(09)096. The meeting Report of the last ETSI TC ERM#38 meeting was attached to the report in order to inform WG SE about new work as well as decisions in ETSI.

The Liaison Statement to ECC in document SE(09)109 about initiation of work on a new Harmonized European Standard for small gap fillers in ETSI TC ERM was presented. Gap Fillers are intended for consumer use. These devices are low-power on-channel repeaters of a DVB-H multiplex at the UHF frequency range, with the aim of improving indoor reception in areas where outdoor reception is available. They are consumer-grade products, intended to be installed by the final user. WG SE recommended that ERM TG17 would send technical information as soon as a stable draft is available in ETSI.

Mr. Weber also presented the latest draft TR 102 628 – System Reference Document for future Public Safety and Security (PSS) systems as in document SE(09)110annex. The new draft includes in response to a question from FM38 the contiguous band requirement of 10 MHz for the future broadband PPDR requirement. WG SE also noted the information in the draft SRDoc given on cognitive radio for PPDR which could become a subject for studies in the future.

Liaison Statements from ETSI ERM on EN 300 330 revision (document SE(09)111 and on WLAM systems (document SE(09)114 were noted. WG SE was informed that on WLAM the discussion on a possible SRDoc to be created in ETSI ERM TG SRR are still ongoing.

Another Liaison Statement (SE(09)Info013) was presented by the ETSI Liaison Officer from ETSI ERM on measurement capabilities on devices using frequencies above 40 GHz that includes an overview on considerations and the creation of new standards for operational frequencies above 40 GHz). SE21 already discussed this liaison statement in SE(09)Info013 and additional information is encouraged from ETSI and other interested parties before the next PT SE21 meeting.

SE(09)Info015, the response on the ETSI guide on drafting SRDocs was noted by WG SE. SE(09)Info014 (Liaison Statement from CEPT/ECC to ERM on guidance to ETSI on the use of BEM for TS in the 2500-2690 MHz band) was forwarded to SE42 for their considerations.

The ETSI Liaison officer also informed WG SE that the work in ERM TG SRR on a new SRDoc on SRD radar equipment in the 76 to 77 GHz range for surveillance radar in infrastructure applications would include a wider application field that also included safety aspects and was expected to be available for the next SE24 meeting (see also section 8 (SE24)).

Mr. Weber presented ETSI TR 102 626 – the already published Systems Reference Document on CB Radio (document SE(09)117). Hereby, the CB radio community request studies for increased emission level (not new frequencies), for FM, AM and SSB, based on the changed spectrum environment due to digitization as well as the dominant mobile CB usage scenario in lorries providing better separation towards victims. This issue is further discussed in Section 5 (SE7).

With regard to the studies on GSM-R extension, several contributions were presented (see section 3.3 (WG FM)). Mr. Weber presented SE(09)Info016, SE(09)Info017 and SE(09)Info019 on behalf of UIC, providing technical background

and support for these studies. It was decided that SE7 should conduct such studies (pending confirmation from WG FM) taking into account the rationale and measurement results performed at the Kolberg laboratory of the BNetzA as depicted in the ETSI SRDoc (TR 102 627).

Furthermore, Mr. Weber informed in his capacity of chairman of ETSI TC RT EGSM-R Task Group, about the new standardisation work on GSM-R in ETSI TC RT TG EGSM-R that includes specification for the E-GSM-R frequencies and improved GSM-R mobile station receiver parameters.

WG SE considered document SE(09)125, a liaison statement from ETSI ERM that informs various groups within ECC about the creation of the ETSI STF 386 dealing with PMSE and cognitive radios. As suggested by ETSI ERM, WG SE developed a reply (**Annex 24**) containing the various SE activities related to the subject:

- study about DAA for PWMS in the L-band (WI SE24_27);
- study about white spaces in the 470-790 MHz band (WI SE43_1);
- study included in CEPT Report by SE42 on PMSE potential use of the interleaved spectrum (FDD duplex gap or TDD guard band) in the 790-862 MHz band.

4 WG SE adoption of ECC documents after public consultation

At the May 2009 meeting WG SE provisionally adopted and sent two draft documents to public consultation. Doc. SE(09)097 from ECO presented the summary of results of public consultation. WG SE considered the results of the public consultation and took actions as described for each relevant document:

4.1 Draft ECC Report 135 (Inductive limits in the frequency range 9 kHz to 148.5 kHz) - SE24_29

The Report received two comments from Valeo and France. SE24 agreed to include the comments into draft ECC Report 135 as proposed by France. It was noted that similar comments were sent to SRD-MG with regard to Annex 9 to Rec. 70-03. WG SE considered the proposals developed by SE24 (see document SE(09)113) and finally adopted draft ECC Report 135 (see **Annex 07**). The ECO was asked to publish it on the Office web site.

4.2 Draft ECC Report 134 (on Analyses of Potential Impact of Mobile Vehicle Radars (VR) on radar Speed Meters (RSM) operating at 24 GHz) - SE24_25

The Report received one comment from France. SE24 agreed to include the comments from France into the draft ECC Report 134 (see document SE(09)112). One of those proposals was to refer to the attenuation resulting from the bumper while defining the maximum e.i.r.p. In terms of implementation, this proposal may result in some difficulties since suppliers are unlikely to measure the attenuation of each of the bumper in order to determine the allowed power for individual cars or car lines. SE 24 proposed to consider the worst case for the bumper attenuation factor

for the range of 24.075 to 24.150 GHz. The limits of the maximum dwell time with or without bumper were modified accordingly in the draft report. WG SE considered the proposals developed by SE24 and finally adopted draft ECC Report 135 (see **Annex 06**). The ECO was asked to publish it on the Office web site.

5 Report from Project Team SE7

Project Team SE7 is responsible for the compatibility issues of mobile systems (except IMT-2000) below 3 GHz. Mr. Petteri Jokela, the SE7 Chairman, reported about the activities of the Project Team SE7. Since the last WG SE meeting, SE7 has had two meetings: 3 - 4 June 2009 in Brest, hosted by ANFR and 25 - 26 August 2009 in Berlin, hosted by BNetzA.

5.1 Mobile Communication Services on Vessels (MCV)

SE7 had prepared CEPT Report 28 as a response to the European Commission Mandate on MCV (Mobile Communication Services on Vessels).

SE7 had considered the responses given during the public consultation of the CEPT Report 28 and made small changes to the Report and forwarded it to the ECC, which in its June 2009 meeting had approved it for publication (see chapter 3.1). The Report was then sent to the RSC (Radio Spectrum Committee).

WG SE noted that the regulatory work is still going on in the RSC with a view to prepare an EC Decision on MCV, but the technical work within WG SE is completed. So WG SE decided to close the work item SE7_10.

5.2 GSM Multicarrier BTS (MCBTS)

As described in chapter 3.2 above, ECC PT1 is responsible for the compatibility studies with all the other systems. ECC PT1 and SE7 used the same characteristics for the MCBTS emissions in their studies.

The following three studies were identified inside the responsibility of SE7:

- coexistence studies between GSM MCBTS and Tactical Radio Relay (TRR) links in the 915 MHz – 935 MHz band;
- coexistence studies between GSM MCBTS and ARNS (RSBN/PRMG) system operating in the 915 MHz – 935 MHz band;
- coexistence studies between GSM MCBTS and HC-SDMA (iBurst) system operating in the 1787.5-1802.5 MHz.

For the ARNS (RSBN/PRMG) systems, the Russian Federation reminded the meeting that they still verify the technical characteristics from the operators of these systems.

The results of the SE7 studies show that the introduction of MCBTS has no noticeable effect on the systems, which were covered by the SE7 studies.

WG SE considered that it would be beneficial to combine the results from SE7 (doc. SE(09)116) with the results from ECC PT1 (doc. SE(09)122), so that there would be only one draft ECC Report on MCBTS. During the WG SE meeting a first draft single ECC Report was prepared and presented to the meeting (**Annex 15**).

It was decided to send a liaison statement to ECC PT1 (**Annex 22**), asking them to finalize their studies on MCBTS, incorporate these additional results in the draft ECC Report prepared by WG SE and send it back to WG SE before December 2009, so that WG SE can consider it at its February 2010 meeting with a view of starting the Public Consultation process.

Statement from the UK:
The UK wish to reserve their position regarding the report on the issue of the MCBTS until they have considered the issue further.

Furthermore WG SE developed a draft Liaison Statement in response to ETSI MSG and TC RT (**Annex 23**) summarizing the results of the whole merged Draft ECC Report. WG SE attached this proposal to the Liaison Statement sent to ECC PT1 (**Annex 22**).

Following the concerns expressed during the WG SE meeting on the correct usage of terms like out-of-band emission, spurious emission, unwanted emissions etc, a general paragraph was inserted in the proposed Liaison Statement to ETSI MSG to highlight this inconsistency with the ITU-R and CEPT recommendations dealing with these emission limits. ETSI MSG and TC RT are reminded to consider this aspect carefully and to follow the ongoing activities inside SE21.

ECC PT1 is asked to finalize the Liaison Statement (**Annex 23**) in its September meeting and is requested to send the final response to ETSI MSG on behalf of ECC PT1 and WG SE before October 2009.

5.3 GSM-R

WG FM had made a request to perform additional studies concerning GSM-R (see chapter 3.3 (WG FM)). These studies were also supported by UIC and DB Netz AG.

WG SE prepared a new work item (**Annex 26**) and assigned SE7 to study compatibility between GSM-R and public networks and to give guidance on practical coordination. The deadline for the work is September 2010.

WG SE decided to send a liaison statement to WG FM and ECC PT1 to inform them on the new work item (**Annex 19**).

5.4 CB radios

ETSI ERM had prepared a System Reference Document on Citizens' Band (CB) radios with proposed new emission levels (see document SE(09)117 and chapter 3.6

(ETSI)). WG SE was asked by FM38 (see SE(09)Info021) to perform studies to verify whether these new emission levels are appropriate to protect other radio services.

Some administrations were of the view that studies may not be even necessary taking into account their experience on the usage of CB radios

As any further activity is pending the endorsement of WG FM, it was decided that no formal new work item will be prepared now. SE7 may initiate a first discussion after the WG FM meeting in October.

5.5 Next meetings of SE7

The next meeting of SE7 is on 9 - 10 December 2009 in [tbd].

6 Report from Project Team SE19

The progress report of SE19 was presented in document SE(09)099 and was introduced by the SE19 Chairman, Mr. Jean-Philippe Kermoal (ECO).

6.1 Cooperation and support to PTs

WG SE noted the collaboration between SE19 and CPG-PTD on the WRC12 AI 1.5 in relation to the revision of Recommendation T/R 13-02 and AI 1.20 on the HAPS.

6.2 WI SE19_22: High Altitude Platform Stations (HAPS) in the range 5850 - 7075 MHz

WG SE noted the progress of SE19 on High Altitude Platform Stations (HAPS) WI in the range 5850-7075 MHz. WG SE members were invited to send contribution to the working document on the HAPS with the aim of ensuring adequate protection of existing services including conventional fixed stations.

6.3 WI SE19_23: Review of ECC-ERC-T/R Recommendations made in SE19

WG SE approved for public consultation the following revised recommendations:

1. ECC/REC(01)04 (FS channeling arrangements in the 40.5-43.5 GHz band) (**Annex 08**) with the addition of a editor's note for considering the current work of WG FM as information. This will appear on the text for the Public Consultation and will be removed after the Public Consultation. A question was raised on the applicability of Annex 3 and 4 for BEM. This may be addressed during the Public Consultation.
   Following the approval of this Recommendation WG SE drafted a liaison statement to WG FM to inform them about the final revised version (**Annex 18**).
2. ERC/REC 12-06 (FS channeling arrangements in the band 10.7-11.7 GHz) (**Annex 09**).

3. T/R 12-01 (FS channeling arrangements in the 37-39.5 GHz band) (**Annex 10**).
4. ECC/REC/(01)05 (parameters for the FS planning) (**Annex 11**).
5. ECC/REC/(02)02 (channeling arrangements for the 31-31.3 GHz band) (**Annex 12**).
6. ERC/REC/(01)02 (channeling arrangements for the 31.8-33.4 GHz band) (**Annex 13**).
7. T/R 13-01 (channeling arrangements for the FS bands between 1 and 3 GHz) with minor changes in considering d) (**Annex 14**).

Some concerns were raised on the proposed revision of ECC/REC (02)06 (channeling arrangements for the 7.125-8.5 GHz band) developed by SE19 since it does not fulfill the initial objectives of promoting harmonization. Taking into account that only 9 administrations have implemented the version currently in force, WG SE identified 4 options to deal with this Recommendation:

a. Approve the revised Recommendation from SE19 for public consultation;
b. Keep the Recommendation currently in force;
c. Withdrawal of the Recommendation due to its limited implementation;
d. Ask SE19 to revise the recommendation so that harmonization is maintained and the number of annexes kept to a minimum whilst allowing a larger implementation.

At this stage, WG SE favored the 4th option and asked SE19 to improve the revision of the recommendation in that respect. WG SE members were asked to provide contributions to SE19 with their current channel plan implementation to help SE19 to have a clear overview of the current CEPT national situation.

WG SE also noted the overall progress on this WI:

1. T/R 13-02: Preferred channel arrangements for fixed services in the range 22.0 - 29.5 GHz. Work under progress as given in SE(09)099annex10.
2. ERC/REC/(00)05 on the use of the band 24.5 – 26.5 GHz for Fixed Wireless Access. Work is to be started.
3. ERC/REC/(01)03 on the use of parts of the band 27.5 – 29.5 GHz for Fixed Wireless Access (FWA). Work is to be started.
4. ECC/REC/(04)06 on the guidelines for block allocation for Fixed Wireless Systems in the band 31.8 – 33.4 GHz. Work is to be started.

6.5 Future meetings of SE19

WG SE noted the latest news of SE19 at www.ero.dk/wgse/se19.

The next SE19 meetings were scheduled for the following dates:

- Meeting 51: 8 - 9 October 2009, ECO
  - This meeting will be dedicated to:
    - ECC Report on the HAPS activity
    - Remaining revision of recommendations (TR 13-02, rec (00)05, rec (01)03 and rec(04)06).
- Meeting 52: 12 - 13 January 2010 [TBD]

- SE19 members are invited to contact the SE19 chairman to arrange the location of that meeting.
- This meeting will be dedicated to the response to the Public Consultation

7 Report from Project Team SE21

The progress report of PT SE21 presented in document SE(09)100 was introduced by the PT SE21 Chairman (Mr. Klyucharev (Russian Federation). He mentioned that PT SE21 met twice since the last WG SE meeting: in Diegem, Belgium (11 - 12 June 2009) and in Copenhagen, Denmark (27 – 28 August 2009).

7.1 WI SE21_14: Revision of ERC REC 74-01

In the framework of this WI, SE21 conducted work on two sub-items: the revision of ERC Rec. 74-01 itself and the development of a draft ECC Report on the impact of radar spurious emissions on other radiocommunication services/systems.

7.1.1 Revision of ERC REC 74-01

SE21 achieved little progress in relation to the revision of ERC REC 74-01 itself. There were no proposals of further revisions of Annex 1 (in relation to Broadband Wireless Access issue) and Annex 5 (in context of spurious emission levels of radars).

In the Annex 2 (Land Mobile Service and Maritime Mobile Service) SE21 agreed that the term “transmitter bandwidth” will replace the term “total transmission bandwidth” in a new Section 3. The title of this Section was also modified by removing “multichannel” (Spurious emissions for multicarrier and multi-RAT Base Stations).

A new proposal of a definition of the transmitter bandwidth was provided in SE21and included in the working document although some reservations were expressed.

No consensus was reached within SE21 in relation to the boundary between the out-of-band and spurious domains for multicarrier transmitters at this stage. Therefore, it was agreed to continue that discussion by correspondence.
Following the discussion on the MCBS studies inside SE7 and ECC PT1 (see also chapter 5), WG SE recommended to SE21 to consider this aspect carefully.

SE21 received and agreed a proposal from the ETSI ERM RM to do numbering of rows in the Tables within ERC REC 74-01 to have a possibility to make a clear and precise reference (see SE(09)100annex1).. WG SE also accepted this modification.

An overview of the alignments of ETSI standards in relation to ERC Rec 74-01 was prepared in SE21 and it was agreed that at this stage SE21 would help the relevant ETSI groups to align their ETSI standards with ERC Rec 74-01.

7.1.2 ECC Report on the impact of radar spurious emissions on other radiocommunication services/systems

A good progress was achieved by SE21 on this subject based on the 8 contributions and good activities within the correspondence group chaired by Mr. Macchi (SIAE Microelettronica)). Following their consideration SE21 agreed:

- that the different radar types may be studied in this ECC Report, however at this stage meteorological radar is under consideration only. Following this assumption the spurious domain boundary will be identify for the present radars;
- that at the later stage of the study SE21 may ask a guidelines from WG SE to possible modification of the ECC Recommendation (02)05 'Unwanted emissions';
- that all other radiocommunication services/systems may be studied following the title of the draft ECC Report however if the study in relation to assess the impact to the FS shows that the existing limit can not be relaxed, there is no need to conduct additional studies in relation to other services;
- that in parallel, administrations may submit results of studies to assess the impact on other radiocommunication services/systems (other than FS) taking into account the existing deadline for the work under this ECC Report.

WG SE noted the overall progress on the SE21 work on this Draft ECC Report.

Some regulatory interpretation issues were raised in SE21 in relation to the 5 GHz RLANs that have been identified as one of the possible victims of radar spurious emissions. Both radiodetermination and mobile services have a primary status in the 5 GHz band in accordance to the ERC Report 025. However, footnote 5.450A RR states that: *"In the band 5 470-5 725 MHz, stations in the mobile service shall not claim protection from radiodetermination services. Radiodetermination services shall not impose on the mobile service more stringent protection criteria, based on system characteristics and interference criteria, than those stated in Recommendation ITU-R M.1638. (WRC-03)"*. In addition, 'considering g)' of ECC Decision (04)08 states: "*that in many countries there is an essential need for the operation of military and meteorological radars in the bands between 5 250 and 5 850 MHz and therefore protection from interference from the radiodetermination service cannot be requested by WAS/RLANs*".

During the WG SE meeting Sweden raised again the question of the regulatory status and indicated that the DFS-mechanism, due to insufficiently sensitive DFS-threshold level, is the probable reason to experienced RLAN-disturbances in the vicinity of radars. The DFS-mechanism certainly cannot distinguish between wanted and unwanted emission. The Swedish opinion is that the RLANs are secondary in relation to the radars with regard to protection.

After discussion inside WG SE it was concluded that the ECC Report should concentrate on the technical matter and should contain the results of technical assessment on the impact of radar spurious emissions on other radiocommunication

services/systems only. Therefore there is no need to consider these regulatory aspects further within the scope of this Report.

7.1.3 Other Business in relation to ERC REC 74-01

During the SE21 meeting in June 2009 it was agreed that in order to improve the communication and transparency between the CEPT and ETSI there is a need to invite test equipment manufacturers to the SE21 meeting in December 2009. The aim of this meeting would be to exchange views and share information between the testing device manufacturers and SE21 on measurement requirements and capability in particular above 40 GHz. However nobody provided contact information of their notified body so far.

Therefore it was proposed to come back to this idea after forthcoming ITU-R WP 1C meeting (September 2009) where informal discussion with some manufacturers is expected. It was also agreed to develop a list of possible questions that SE21 would like to discuss with test equipment manufacturers during the common meeting. Contact point (Mr. Goodyear (UK)) was appointed to collect questions to the manufacturers.

Also SE21 proposed a slightly modified description of the WISE21_14. This proposal was approved by WG SE as given in **Annex 05**.

7.2 WI SE21_9: Revision of ITU-R Rec. SM 329

There were no contributions to support a proposal from the International Amateur Union dealing with the revision of ITU-R Rec. SM.329 SE21 agreed that administrations may have a chance to consider this proposal during their national preparation to the ITU-R WP 1A meeting and submit their view directly to the ITU-R WP 1A (September 2009).

WG SE noted this information.

7.3 Liaison Statements from other groups

WG SE was informed that a little liaison activity was done with SE19, SE24 and ETSI since the last WG SE meeting.

7.4 Date and place of the next SE21 meeting

The next SE21 meetings are scheduled for the following dates:

- Meeting 70: December 2009, Mainz, Germany (14th (14.00) – 16th (13.00) Drafting Group radars activities, Chaired by Mr. Macchi (SIAE Microelettronica)) and (16th (14.00) – 17th (12.00) Plenary meeting);
- Meeting 71: The first or second week of March 2010 (3 days meeting), [Toulouse, France].

8 Report from Project Team SE24

The progress report of SE24 presented in document SE(09)101 was introduced by the SE24 Chairman, Mr. LeDevendec (ECO).

8.1 Maximising spectrum use efficiency (SE24_23)

WG SE considered a proposal of liaison statement to FM22 relating to the SRD monitoring campaign provided in SE(09)101annex 2. Some administrations were of the opinion that the liaison statement should be shortened therefore the document was significantly modified before being sent to FM22 (see **Annex 25**).

8.2 UWB Level Probing Radar (LPR) in the frequency bands 6 GHz to 8.5 GHz, 24.05 GHz to 26.5 GHz, 57 GHz to 64 GHz and 75 GHz to 85 GHz (SE24_24)

SE24 has finalised the working document towards a new ECC Report on LPR. WG SE considered this proposal and it was decided to shorten the executive summary. In addition, the document was reviewed in order to include technical comments including the results of additional SEAMCAT simulations (LPR versus FS) provided by Germany (see document SE(09)120). The new draft ECC Report was adopted for Public Consultation (see **Annex 16**). Administrations may need to further consider the application of APC / licensing during the Public Consultation.

8.3 LAES in disaster situations operating within the band 3.4 to 4.8 GHz (SE24_28) / specific UWB applications

SE24 considered the items relating to specific UWB applications identified by FM47 requiring compatibility studies (see draft CEPT Report 34) and reached the following conclusions:

- For UWB airborne, since it is a new subject, it should be investigated separately.
- For the others items, the existing material (e.g. TG3 documents, ECC Report 64 and ECC Report 23) may be used as a basis and they could be merged in a single work item.
- The output of those work items could be new ECC Reports.

WG SE endorsed those proposals and the work programme was modified accordingly.

It was proposed that CEPT could contact the EC/JRC in order to conduct UWB measurements if necessary. The meeting discussed this issue and it was concluded that, in accordance with the discussion of the latest ECC/EC coordination meeting, some aspects of such possible cooperation should be clarified before going further.

8.4 Compatibility studies on SRR 26 GHz including WLAM (SE24_31)

SE24 initiated the work in support to FM47 with regard to the SRR mandate. A liaison statement was sent to FM47 in order to summarise the status of the work relating to

Fixed Service, SRS and limits to protect passive bands. In addition, an initial working document was developed in order to describe WLAM systems. This was noted.

8.5 RLAN on board aircraft (SE24_32)

SE24 has finalised the working document towards a new ECC Report on RLAN on board aircraft. WG SE considered this proposal and decided to review the executive summary. The draft ECC Report is adopted for Public Consultation (see **Annex 17**).

8.6 Low Power Active Medical Implants (LP-AMI) (SE24_34)

SE24 has finalised the Phase I of the study and concluded that among the bands initially considered (2360-2400MHz, 2400-2483.5 MHz, 2483.5-2500 MHz and 2700-3400 MHz), the band 2483.5-2500 MHz seems to be the preferable band for further study. This confirms the identification made at an earlier stage by SRD-MG. WG SE endorsed these initial conclusions and developed a liaison statement to WG FM in order to report the status of the work (see **Annex 20**). SE24 may initiate the Phase II (more detailed statistical Monte-Carlo analysis). It was noted that support from SE40 will be needed for the Phase II in order to get characteristics of CGC in the identified frequency range. It was indicated that new systems may be under development within CEPT which may need to be considered in the study. Finally, the study should carefully consider compatibility with systems at 2.4 GHz (FDD and TDD) in both directions.

Sweden pointed out the need, in addition to the studies carried out for Base stations, to study the potential interference from future mobile terminals in the band 2500-2690 MHz as well. The reason to this proposed SE24-action is the expected short distances between in particular mobile terminals and LP-AMI devices.

8.7 PWMS – Additional studies in the L band (SE24_27)

Considering the need for additional characteristics for CGC, a liaison statement was sent by SE24 to SE40. WG SE was informed about on going activities within ETSI relating to PMSE (see also document SE(09)125 from ERM) which may need to be considered in the development of the ECC Report. Taking into account those facts and the current workload of SE24, it was decided to postpone the finalisation of the draft ECC Report to May 2010. It was emphasized that new MSS systems may be under development within CEPT and may also need to be considered in the study.

8.8 Surveillance Radar (SE24_33)

Considering the current workload of SE24 and the need for defining priority, limited progress was made on this WI. It was noted that SRD-MG may need to decide at a later stage on the appropriate Annex in Rec. 70-03 to retain the regulation for those devices (Annex 5 or Annex 6). It was indicated that the scope of the WI on this issue within ETSI may need to be clarified.

8.9 Date and place of future SE24 meetings

M51: 26-30 October 2010, BNetza, Mainz, Germany (beginning of the week for narrow band issue – second part of the week UWB)
Drafting group in support to FM 47 activities: 14-15 December 2010 (starting at 14H00)

M52: 12-15 January 2010, starting the 12th at 14H00, 12-13 dedicated to support of FM47 activities, 13 January 2010 afternoon, joint meeting with SRD-MG.

9 Report from Project Team SE40

On behalf of the SE40 Chairman, Stefan Bach (Germany) introduced the report of SE40 activities in document SE(09)102. SE40 met once on the 8th and 9th June 2009 in the premises of INMARSAT in London.

9.1 CGC in the 1.5 and 1.6 GHz MSS bands

WG SE noted the activities in SE40 on the compatibility between MSS CGC base stations studies between CGC and conventional MSS systems in the same band and in adjacent bands. These studies indicated that separation distances of several hundred of km were needed between CGC base stations and MSS terminals; however several comments were received regarding the parameters used in these studies. The working document on studies between CGC and MSS systems has been updated to include those studies and their methodologies as well as all the comments received. It was decided to revise the studies with agreed parameters before sending anything to FM44.

SE40 considered two output documents from last ITU-R WP 4C meeting. One of these documents provided characteristics of CGC systems that may use the 1.5 and 1.6 GHz band. Discrepancies with the information provided to SE40 in the reference bandwidths associated with the EIRP for base stations were noted and will have to be addressed.

WG SE was informed about a liaison statement to SE24 providing information and technical characteristics on CGC in order to perform compatibility studies with Professional Wireless Microphones Systems (PWMS) in the 1.5 GHz frequency band.

Furthermore WG SE noted that COSPAS-SARSAT provided information to SE40 on the future systems which are envisaged in the band 1544-1545 MHz. As they will use the sides of the band, this might change the conclusions of the compatibility studies between CGC and COSPAS-SARSAT. However, since no further information was available, the document was only noted at this stage in SE40.

WG SE was informed about the lack of information in SE40 regarding the use and characteristics of FS systems in the 1.5 and 1.6 GHz bands covered by this work item in CEPT. Therefore WG SE was asked to seek information on this topic in order

to conduct the studies in SE40. The Chairman of WG SE requested those administrations, which are interested in the sharing studies, to provide their information on the FS systems to SE40.

9.2 CGC in the 1.6 and 2.5 GHz MSS bands

SE40 considered the liaison statement from ECC PT1 also introduced in last WG SE meeting pointing out that if any guard band was necessary for the protection of IMT above 2.5 GHz from CGC below 2.5 GHz, this entire guard band would have to be found in the MSS band, and that in order to respect the blocking criteria of IMT base stations from CGC base stations deployed 100 m away, their emission power would have to be limited to -10.5/-1.5 dBm. Those elements have been incorporated in the draft ECC Report and a liaison statement was sent back to ECC PT1 to inform them that SE40 has taken into account those elements.

The section on technical characteristics of CGC associated to the GLOBALSTAR system was updated in the draft ECC Report.

Inside SE40, IRIDIUM provided an example of application of the methodology to assess the impact of CGC terminals to other services, which might be more adapted for a satellite victim, such as GSO MSS satellites in adjacent bands. The document was noted, pending further work on the topic.

SE 40 sent a liaison statement to FM44 to remind them that SE40 is still working on the topic but was not in a position to send any result at this meeting.

WG SE noted the activities of SE40 on this Work Item.

9.3. CGC in the 2.2 GHz MSS band and SOS/EESS/SRS earth stations

WG SE was informed about the progress of the work on the protection of SOS/EESS/SRS earth stations from interference from unwanted emissions of CGC base stations based on the option of coordination or hard limits as chosen by WG FM. The two elements that needed to be defined and passed to FM44 were:

- The distance above which no coordination is required.
- The coordination threshold levels under which no coordination is required.

After considerable discussion SE40 decided to send a liaison statement to FM44 proposing to retain a coordination distance of 60 km and coordination/consultation EIRP thresholds derived using recommendation ITU-R P.452-13, and an antenna height of 30 m for both the EESS and CGC stations. ESA insisted in adding a statement regarding the fact that the aggregate effect of several base stations as well as the effect of base stations on top of hills was not taken into account in the thresholds, so that the thresholds over the horizon derived might be too relaxed to cover those cases.

SE40 since then received a liaison statement from FM44 requesting SE40 to choose between two options for the definition of the coordination thresholds levels: The difference between the two options lies in the definition of the horizon. This will be

discussed at next SE40 meeting. FM44 requested SE40 to send the answer directly to WG FM in order to save time. This was endorsed by WG SE.

9.4 WRC-11 Agenda item 1.18 – RDSS in the band 2483.5-2500 MHz

SE40 updated the following studies contained in the draft ECC report:

- Sharing between MSS and RDSS
- Sharing between MSS and MS

Furthermore, SE40 received a new compatibility study between RDSS and IMT in adjacent band, noting that the impact of IMT on RDSS should be reviewed taking into account corrected values for the unwanted and in-band emission power of IMT terminals. The study was also incorporated in the draft ECC report.

A liaison statement was sent by SE40 to CPG PT-D to reflect the progress made in SE40 on WRC-11 AI 1.18. The draft ECC report was attached for information.

The Russian administration informed WG SE about the availability of the parameters for the Radiolocation service, which can be found as a temporary document (Draft CPM text) in the ITU-R WP4C folder on the ITU server. The Russian administration will provide this information directly to the next SE40 meeting in order to conduct the compatibility studies.

9.5 New Work Item on RNSS pseudolites

WG SE was informed about a liaison statement from FM44 to SE40 on RNSS pseudolites requesting further work on detailed issues not covered in ECC report 128 in particular with regard to indoor pseudolites, so that FM44 may develop regulation on this issue. This liaison statement was provided in document SE(09)102annex1. After a short discussion, WG SE decided to allocate a new Work Item to SE40 on this issue. The output of the new Work Item is to provide support to FM 44 as appropriate on the development of measure related to RNSS pseudolite use and if appropriate a revision of ECC Report 128. The Work programme (**Annex 05**) was amended accordingly (SE40_16).

9.6 Next meeting dates

The next meeting of SE40 is planned for the 24 - 25 of September in Brest (ANFR).

10 Report from Project Team SE42

Bruno Espinosa (F) reported orally about the latest activities of SE42, on behalf of the SE42 Chairman, Steve Bond.

10.1 SE42 activities on the 2nd EC Mandate on Digital Dividend

SE42 held one meeting in Sophia-Antipolis (28 - 29 May 2009), where it completed its work on the draft response to the second EC Mandate on the digital dividend. At

this meeting, SE42 also finalised the Annex 3 of the draft ECC Decision on mobile/fixed use of the band 790-862 developed in ECC PT1.
These results were submitted to the 23rd ECC (22 - 26 June 2009, Isle of Man) where both the draft response to the EC Mandate (Draft CEPT Report 30) and the ECC Decision (ECC Dec(09)/EE) were approved for Public Consultation which ended the 6th of September 2009.

WG SE noted the information (document SE(09)Info022) on comments which were received by the ECO as a results of the public consultation of the CEPT Report 30. 6 administrations have responded to the consultation complemented by 15 responses from industrial stakeholders (broadcasters, cable, professional microphone and mobile community). There is a vast range of responses varying from very short and concise to more extensive.

WG SE noted that the ECO will provide a more thorough summary of the public consultation process to SE 42 and to the ECC.

These comments together with the comments on Dec(09)/EE related to the SE42 activity will be addressed by SE42 at its next meeting (23 – 25 September in Moscow).

10.2 Work on the EC Mandate on the 2 GHz band

At its 23rd meeting, the ECC decided to assign the work in response to the EC Mandate on the 2 GHz band to SE42. Task 1 will initially be co-ordinated by the Office by developing a questionnaire with support from both SE42 and ECC PT1. The same applies for the summary of the responses received. SE42 will take overall responsibility to combine the results from both Tasks 1 and 2 into a single draft CEPT Report.

Consequently, WG SE considered a proposal from the SE42 chairman (document SE42(09)103) for a new work item SE42_4 on this issue. This was slightly modified to reflect more accurately the text of the Mandate. See the WG SE work programme in **Annex 05**. WG SE sent a liaison statement to ECC PT1 to inform them about this new work item of SE42 (**Annex 21**).

It is expected that the activities on this new item will start during the 22nd meeting of SE42 (Mainz, 06-08/10/2009).

10.3 Flexible bands

WG SE noted that, there has not been any activity in SE42 on this issue for some time, mainly due to the heavy workload of SE42 on EC Mandates related subjects. With the new SE42 item on the EC Mandate on the 2 GHz band, it is expected that this situation will continue. Therefore, WG SE decided to ask SE42:

- to discuss the possible expectations regarding the item on the flexible bands, taking into account the ongoing activities within other CEPT groups (e.g. WG FM, WG RA);

- to report to the next WG SE meeting in order to decide about the status of this item.

10.4 Guidance to ETSI on the use of BEM for TS in the 2500-2690 MHz band

WG SE considered document SE(09)Info014 from ETSI ERM providing ETSI views in response to a liaison statement developed by SE42 and sent by the ECC on the guidance to ETSI on the use of BEM for TS in the 2500-2690 MHz.
After a quick review of the document, WG SE noted that ETSI views seem to be consistent with the elements developed by SE42 in ECC Report 131.

However, WG SE requested SE42 to consider the document from ETSI in greater details and to reply to ETSI ERM if appropriate.

10.5 Next SE42 meetings

21st SE42 meeting: 23 – 25 September 2009, Moscow (main task will be the resolution of comments on the digital dividend Mandate).
22nd SE42 meting: 06 – 08 October 2009, Mainz (start of the detail work on the 2 GHz band).

11 Report from Project Team SE43

The SE43 Chairman, Bruno Espinosa (F) reported about the activities of SE43 since its creation at the 53rd WG SE meeting (document SE(09)104).

11.1 Summary of SE43 activities

SE43 held its first meeting on the 9 - 10 June 2009 in Maisons-Alfort and devoted its activities to the WI SE43_1. SE43 developed a working document on Working assumptions and roadmap for the SE43 studies. This addresses in particular the potential deployment for white space devices (e.g. personal/portable devices or Fixed/access devices providing wireless broadband Internet access…), the other radio systems to be protected (broadcasting, radio microphones, radio astronomy…) and the potential techniques for the CRS in the white spaces (sensing, geolocation database, beacon reception…).

This was considered by WG SE as Annex1 to document SE(09)104 for information. The meeting was also informed about the ongoing SE43 correspondence activities that were set up in order to make progress before the second SE43 meeting, in particular on the definition of technical parameters for the systems/services to be protected.

The Russian Federation pointed out that aeronautical radionavigation systems should be considered in the other radio systems to be protected. Additional information will be provided to the SE43 chairman by the Russian Federation.

The SE43 Chairman also reported about the difference of views expressed within SE43 on the item related to the assessment of the spectrum potentially available for White Space devices.
On this aspect, Sweden proposed in document SE(09)121 a revision of the Terms of Reference as well as the work item with the message that the Cognitive radio usability should be taken into account.

After some discussion, WG SE decided that there was no need to change SE43 ToR and the WI SE43_1 on this item since the proposal from Sweden is covered by the existing wording. Contributions to SE43 are required to clarify which aspects would have an impact on the spectrum potentially available for white space devices. The usability of spectrum by White Space devices is one factor to be further discussed by SE43.

11.2 Additional task requested by the ECC

As a result of the discussions held at the 23rd ECC meeting (see document SE(09)093), SE43 was tasked by the ECC to report to the ECC correspondence group on its CRS experience. Since the results of the ECC correspondence group should be brought to the 24th ECC meeting, SE43 would need to address this task by correspondence in order to provide to the correspondence group some appropriate elements in a timely manner. This was endorsed by WG SE.

11.3 Work in ITU-R WP6A on white spaces

The SE43 Chairman provided in document SE(09)Info020 some information on work currently in progress in ITU-R WP6A related to white spaces in the TV bands.
WG SE took note of the activity and agreed that it would be appropriate for SE43 to monitor work in WP 6A on this issue and discuss draft contributions to WP6A if appropriate.

11.4 Future SE43 meetings

The dates and locations of next SE43 meetings are:

- 20-21 October 2009, Geneva (hosted by EBU),
- 13 – 14 January 2010, place to be decided.

12 Leeheim Measurements

WG SE noted that the results of the new measurements on IRIDIUM satellites in the RAS band 1610.6-1613.8 MHz have been received and will be considered at the September meeting of SE40.

The measurements on the Chinese RNSS system COMPASS had been approved by the WG SE and by the MOU members. The measurements have been conducted in L and S-bands on 3 satellites: the GSO experimental satellite already measured in 2002 and 2005, the MEO experimental satellite and the first operational GSO satellite

launched in May 2009. The measurements have taken place in July 2009 and the results were received by SE40 and will also be considered in the September meeting.

13 EMC

Mr. Jens Rahbek (DK) drew the attention of the meeting to the recent developments of the harmonised emission standard for IT equipment EN55022. This standard is referenced by EMC standards for R&TTE equipment.

The harmonised standard EN55022:1998 has been revised in a new version, EN55022:2006. The new version has two major changes: measurement method for communication over power lines and the extension of emission requirements to include frequencies above 1 GHz, with limits defined in EN 55022:2006/A1:2007, which has date of cessation of 1.10.2010.

The Commission has recently extended the transition period of EN55022:1998 from 01.10.2009 to 01.10.2011.

The Swedish administration has made a decision for withdrawal from the market of some power line communication equipment which was declared in conformity with the EMC Directive based on EN55022:1998. According to the rules in the EMC Directive this decision has been followed by a request to the 98/34 committee to withdraw the standard EN55022:1998 as a harmonised standard. If this request is accepted, it will mean that the version EN55022:2006 and its amendment A1 would become mandatory and introduce emission requirements in the frequency range 1 – 6 GHz.

Mr. João Duque informed the meeting that a document, CISPR/I/302/DC, is currently under consideration by NC (until 11 September 2009), which intends to demonstrate that the protection offered by PLT under the new amendment of CISPR 22 would provide the same level of protection as that existing in CISPR 22.
It seems that this document took the EN 50529-3 as a basis for the demonstration.

The meeting noted this information.

14 ECO assistance to WG SE

14.1 ERO to ECO

The ERO changed name to ECO (European Communications Office) on the 1st July 2009. The most important message now is that it is 'business as usual' for the Office in respect of this name change.

New web and email addresses would be introduced (www.cept.org/committee/name; www.eco.cept.org) but the existing addresses would be maintained indefinitely.

14.2 ECO doc database www.erodocdb.dk

A new version of the Document Database, since the last WG SE meeting, had been put on the website. It includes a map interface to represent the implementation status of ECC Decisions and Recommendations; the colour scheme could be changed if desired. New version is under progress.

14.3 Receiver parameters

WG SE noted the document SE(09)119. Comments and observations are welcome and will be taken into account in preparation to the ECO Interim Report on Rx Project (WP5). The ECO Interim Report will be presented to the next ECC meeting at the end of October. Latest versions of WP2 (with SEAMCAT scenarios) and WP3 documents can be downloaded from www.ero.dk/rx

14.4 ECO Guidelines on Electronic Working Methods (EWM)

ECO has developed with the guidance of WG RA some 'Guidelines on Electronic Working Methods' (see Info018) which are supposed to aid a wider implementation of EWM in the ECC working process.
http://www.ero.dk/86C41E09-044A-41E1-8FC9-AD653F2704DB?frames=no&

14.5 Impact assessment seminar

A seminar on impact assessment was organised by the ECO as a response to an ECC request on the 31 August and 1 September in Copenhagen. There were 38 participants. A summary of the seminar will be presented to the ECC. The material from the seminar can be found at http://www.ero.dk/ia

14.6 ECO bulletin

The second ECO bulletin of activities in other regions was presented in document SE(09)118. This bulletin again focuses on the Asia-Pacific region, following the APT's Wireless Forum at the end of March.

14.7 Web-based Work Programme database (WPDB)

Work is on-going for the updated version.

14.8 ECO involvement in BeFEMTO FP7 EU project

ECO is part of an Advisory Group of the FP7 BeFEMTO EU project that will meet physically about once a year. Jean-Philippe Kermoal will act as the contact person between the ECO and the BeFEMTO. The rationale behind this Advisory Group is to gather peculiar skills, technical expertise, opinions, and advices from organizations. This could facilitate sharing of information for potential contributions into SEAMCAT tool.

14.9 ECO forum

Work is on-going for the updated version of the ECO forum.

14.10 CEPT Conference

WG SE is to note 15th CEPT Conference (Celebrating 50 years of CEPT) on the 21-22 October 2009 in Montreux, Switzerland www.ero.dk/conf2009

14.11 CEPT activities on Cognitive Radio and Software Defined Radio Systems

A web page gathering information on the activities relating to Cognitive Radio Systems (CRS) and Software Defined Radio (SDR) systems within the CEPT can be found at www.ero.dk/cr_sdr.

14.12 Other ECO issues

Regarding the general ECO activities, as usual they focused on providing daily support and contributions to various SE PTs, as well as carrying out the public consultation of WG SE adopted documents, the public consultation for the CEPT report mandated by the European Commission and development of SEAMCAT.

WG SE noted that since 3 ECO experts will be involved in WG SE PTs, the number of days reported in the May meeting is expected to be increased.

Regarding the public consultation for the provisionally approved document at this meeting, the following tentative schedule of consultation was anticipated:

- pre-consultation with administrations: 21 September – 4 October 2009,
- public consultation: 5 October – 30 November 2009.

15 STG (SEAMCAT)

WG SE noted that STG has adopted a new working method (i.e. replacing physical meeting by correspondence work) due to the limited number of participants. WG SE noted that the frequency in the number of meetings is reduced and to privilege phone conferences for specific items/topics/tickets. STG meetings will be set-up at the request of STG members.

15.1 Work Item STG1 (Technical support and development of SEAMCAT)

Current patch release of SEAMCAT is version 3.1.45. (www.seamcat.org)

Current Beta SEAMCAT is version 3.2. beta12 (www.seamcat.org/betaversion)

SEAMCAT development website can be visisted at www.seamcat.org/xwiki

WG SE was informed about the STG activities in resolving bugs reported in SEAMCAT. http://seamcat.iprojects.dk/report

WG SE is invited to note that the LTE DL module is calibrated and that STG will focus on the UL module calibration. A dedicated page to the calibration of the OFDMA module on the on the on-line manual can be found at: (http://seamcat.iprojects.dk/wiki/Manual/Scenario/OFDMA/calibration)

WG SE noted the general enhancement that STG is considering for the SEAMCAT 3.2 and the on-going development of educational training tool for SEAMCAT users. STG welcome any feedback from WG SE.

WG SE unanimously approved the proposed update of the ToR.

WG SE noted the activity on the update of the ITU Rec. P1546 built-in propagation model in the SEAMCAT 3.2 and administration are invited to contact their propagation experts to be involved in the work. In addition, WG SE also noted that STG will update the JTG 5-6 plug-in with the latest changes from WP 3K. WG SE members are reminded that the current propagation plug-in available at http://seamcat.iprojects.dk/wiki/Manual/PropagationModels/JTG56

SEAMCAT workshop will be organised at the ECO on the 2nd December 2009. Agenda will be provided later.

15.2 Work Item STG2 (Revision of ERC Report 68 and Inclusion of the WINNER model)

ECO has undergone a major revision of the SEAMCAT Manual and Training material. WG SE members are invited to provide reviewing process to the SEAMCAT manual and training material directly to the STG chairman. The document can be found under www.ero.dk/download select **SEAMCAT** and **2009**. A specific folder has been created (SEAMCAT manual revision - correspondence activity).

The reviewing process will last the September period to get a final version for the workshop (2nd December 2009).

15.3 Date and place of future STG meetings:

The next meeting of STG is planned as follows:

- Meeting 20: no date has yet been fixed – STG meetings will be set-up at the request of STG members.

16 DFS Testing

Mr Joao Duque (Portugal) informed the meeting about DFS tests that are planned to be performed in autumn 2009 by Anacom in two stages, starting with measurements in laboratory with radar signal generators and continuing with field measurements with meteorological radars. Results may be reported at the next WG SE meeting.

17 WG SE work programme

The updated version was agreed and will be annexed to the Chairman's Report to the next ECC Plenary. It is attached as **Annex 05**.

18 Any other business

Sweden made a verbal proposal that raised the need to study potential interference to RAS-observatories caused by Wind Turbines with the aim to develop an ECC Report with guidance on minimum separation distance between observatory and turbine.

This proposal was supported by Finland, Norway, the Netherlands and Switzerland. However, various concerns were expressed that the issue of interference caused by Wind Turbines is not strictly within the scope of WG SE.
Concerning the issue whether it's within the mandate of WG SE, Sweden is of the opinion that the SE21-ToR clearly covers the protection of RAS.

It was pointed out that, although this item may be of interest of national administrations, the ECC in its function is not entitled to develop any regulations applicable to Wind Turbines.

After some productive exchange of views, WG SE decided not to create any formal work item on this issue but invited interested parties to discuss on an informal basis the protection of RAS from Wind Turbines at the next SE21 based on written contributions. The outcome will be reported to WG SE.

Statement from the UK:
The UK are concerned that a verbal proposal was presented by Sweden on Thursday morning for a new work item to provide guidance on the separation distance required in order to provide protection to the radio astronomy service from wind turbines. This is not inline with the normal working procedure, in addition there was no written contribution on the issue, and did not provide a clear explanation of the specific issue even following questions.

The UK are of the view that the issue to provide guidelines for the separation distance required in order to provide protection to the radio astronomy service from wind turbines is not one for the CEPT but a national issue. There are many national rules that may be applicable when constructing wind turbine sites and these are not within the control of the national radio communication authorities.

19 Approval of the Report of the Meeting

This report was approved by the meeting with authority given to the Chairman to make necessary editorial improvements.

20 Date and place of future meetings

01 – 05 February 2010, Rottach-Egern, Germany

03 – 07 May 2010, [Tromsø], Norway

13 – 17 September 2010, tbd

24 – 28 January 2011, Cardiff, UK

21 Closure of the meeting

The WG SE Chairman thanked the French administration for their hospitality, for the social event and making all the necessary arrangements for the successful meeting. The WG SE Chairman also expressed his thanks to all WG SE delegates, Project Teams chairmen, his Secretary and his Vice-Chairmen for the excellent work during the meeting and their support.

On behalf of the WG SE delegates, Barry Goodyear thanked the Chairman, the Vice-Chairmen and the Secretary for the efficient running of the meeting.

Finally the WG SE Chairman concluded by wishing all participants a pleasant journey home and closed the 54th WG SE meeting.

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